WAYTON
ENERGY TECH CO., LTD

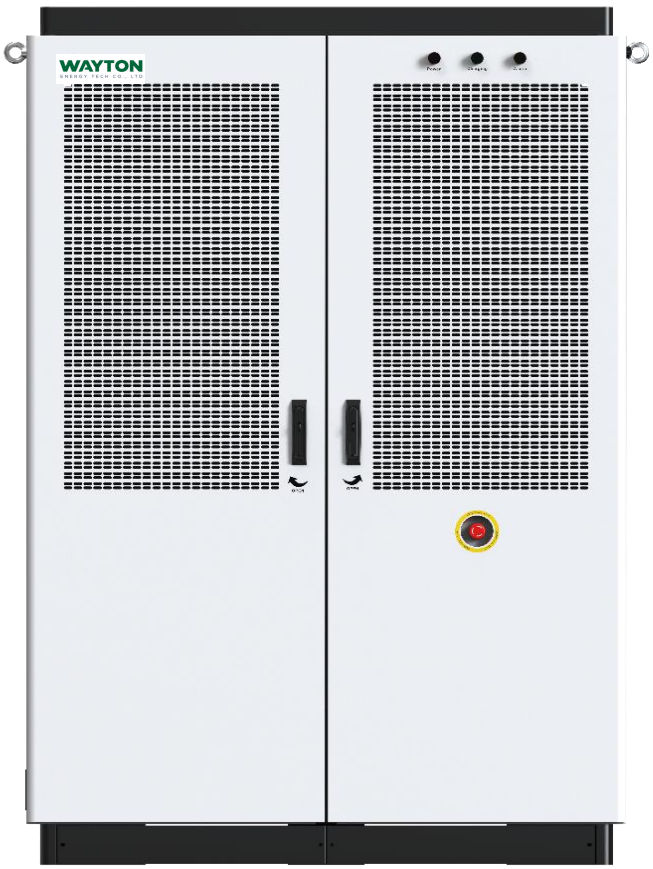
SEC 480kW Distributed
Charger Technical Specifications

Overview

SEC series DC charger is a high-power DC distributed charger independently developed by Sinexcel. It supports new 40kW DC charging module, with a maximum charging power of 480kW. The whole charging system has high efficiency and flexible configuration. By controlling the User Terminal to charge for EV, it can realize not only even load sharing, but also the flexible output distribution of several connectors. In this way, the SEC distributed charger can realize the flexible power distribution among the connectors.

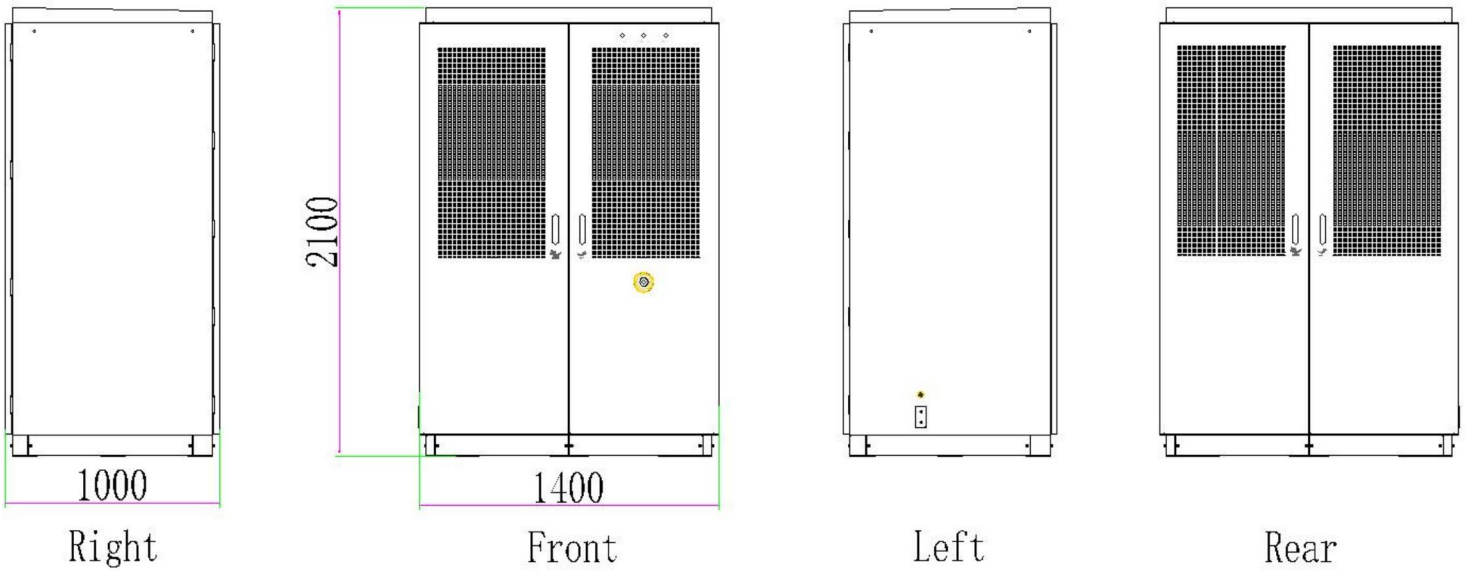
SEC series charger can provide liquid cooling and air cooling User Terminal, as well as CCS1, NACS and CHA charging standard. The charger can meet the charging demand of larger capacity and high endurance from electric vehicle on the market. SEC series charger adopts modular design, and has multiple protections, flexible power distribution and charging control system, which has high efficiency, stable outputs and high reliability. Therefore, it can charge for the EV with high power via reliable User Terminal.





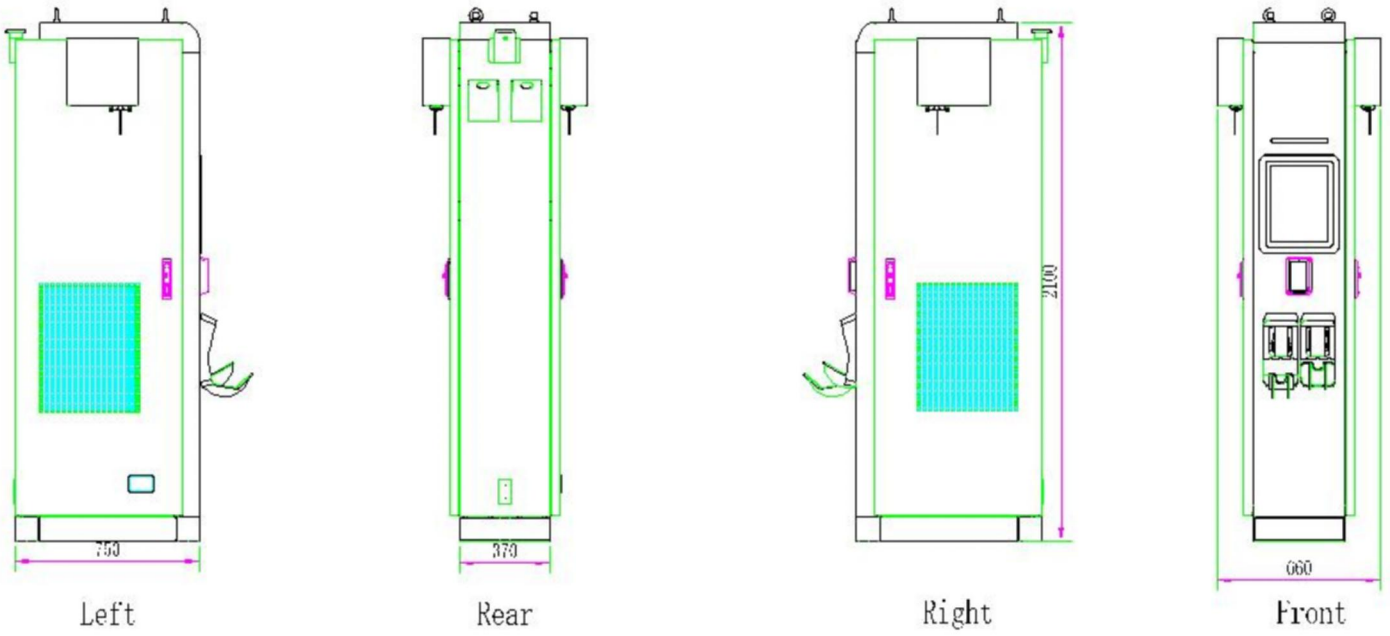
Dimensions

Power bank



W55-1/8*D39-3/8*H82-43/64 inches (W1400*D1000*2100mm)

User unit



D29-17/32*W17-23/32*H82-43/64 inches(W450*D750*2100mm)

Specifications

480kW Distributed Charger		
General	Enclosure material	Stainless steel
	IP and IK rating	IP55/NEMA 3R IK10
	Operational altitude	≤6561.67 ft(2000 m)
	Operating temperature	-13 ~ 122 ℉ (-25 ~ 50 ℃) (Full power)
	Temperature derating	Up to 122℉: 100% output power, 122-149℉ interval, linear power limit, 149℉ or more, module shutdown protection.
	Storage temperature range	-22 ~ 158 ℉ (-30 ~ 70 ℃)
	Humidity	5 %-95 % Rh non-condensing
	EMC	Class A (industrial)
	Protection	Input over voltage protection;Output under voltage protection;Short circuit protection;Over current protection; Overtemperature protection;Current surge protection; Emergency stop protection, etc.
Power bank	Input voltage	480 VAC +/- 10%
	Input frequency	50 / 60 Hz
	Input type	3P + N + PE
	Dimensions	W55-1/8*D39-3/8*H82-43/64 inches （W1400*D1000*H2100mm）
	Power factor	0.99
	Peak efficiency	≥96% (Full load)
	THDi	<5%
	Weight	≤1918lbs(≤870kg)
	Emergency button	Yes
	Grounding type	TN-S, TT
User unit	Connector options	CCS1/CHA/NACS
	Number of connectors	6 (at most)
	Output voltage	200~ 1000V
	Constant voltage range	300~ 1000V
	Maximum current per connector	CCS1(conventional cooling): 300A; NACS(conventional cooling): 350A; CCS1(liquid cooling): 500A; CHAdeMO: 125A;
	Cable length	16.4ft(5m)
	Screen	15" HD touchscreen
	Dimensions	D29-17/32*W17-23/32*H82-43/64 inches (D750*W450*H2100 mm)
	Load sharing	Flexible load distribution according to user requirement

	Incremental unit for output power distribution	40kW
	Payment method	RFID/APP(Credit card/NFC is optional)
	Peak efficiency	96%
	Communication interface	4G / LAN Port
	Language	English (Support customizing other languages)
	Communication protocol	OCPP1.6J
	Cooling method	Air/liquid cooled
	Optional functions	Tilt detection, flood detection, smoke detection, heater, cable management
	Emergency button	Yes
Standards and Certifications	Standards	UL 2202, UL2231, UL1998, UL991, FCC, ISO 15118
	Certifications Mark	cTUVus

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Everything about profitability and charging experience